EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	"10/396118"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L2	1	"10/748180"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L3	190	multipath and (first near2 window) and (second near2 window)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L4	7657	370/342	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L5	27	L3 and L4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L6	2	"6567482".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L7	59	(MMSE or ("minimum mean squared error")) with (MUD or ("multiuser detection")) and multipath	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16

L8	5	"2004091024".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L9	4462	375/316	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L10	7	L3 and L9	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L11	2	("5995538").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L12	0	"98108312"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L13	42	"108312"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L14	2404	375/147	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16

L15	5093	rake adj receiver	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L16	102	(MMSE or ("minimum mean squared error")) with (MUD or ("multiuser detection"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L17	58	("maximal ratio") and (MUD or ("multiuser detection")) and multipath	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L18	102	rake adj receiver and branch same combiner	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L19	2	"20020150181".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L20	2	"6963727".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L21	3	("maximal ratio") with (MUD or ("multiuser detection")) and multipath	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16

L22	5	("maximal ratio ") same (MUD or ("multiuser detection")) and multipath	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L23	325	(MMSE or ("minimum mean squared error")) and (MUD or ("multiuser detection"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L24	87	rake adj receiver and branch same combiner and delay	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L25	20	rake adj receiver and branch same combiner and delay and processor and memory	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L26	2	"20030022680".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L27	2	"6650694".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L28	2	"7103335".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16

L29	557	375/342	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L30	1	(MMSE or ("minimum mean squared error")) with (MUD or ("multiuser detection")) with baseband	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L31	3	"7016699".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L32	351	rake adj receiver and branch and combiner	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:20
L33	3	L3 and L29	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L34	12	multipath same (first near2 window) same (second near2 window)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L35	16	L3 and L14	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16

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L36	2	"20010014116".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L37	6	(MMSE or ("minimum mean squared error")) with (MUD or ("multiuser detection")) same baseband	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L38	50	(MMSE or ("minimum mean squared error")) with (MUD or ("multiuser detection")) and rake	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L39	2296	375/148	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L40	21	L3 and L39	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L41	2	"20040091024".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L42	3	"7103094".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16

L43	2	"7072383".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L44	60	"101594"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L45	0	rake adj receiver and branc and combiner	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L46	2	"5,805,648".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L47	1	(MMSE or ("minimum mean squared error")) with (MUD or ("multiuser detection")) with multipath	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L48	50	(MMSE or ("minimum mean squared error")) with (MUD or ("multiuser detection")) and baseband	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L49	5	("maximal ratio") same (MUD or ("multiuser detection")) and multipath	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16

L50	2	"20020051433".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L51	8	("5881057" | "6128330" | "6301293" | "6317411" | "6370129" | "6466610" | "6473467" | "6516022").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/02 22:16
L52	3	("6754253").URPN.	USPAT	OR	ON	2007/08/02 22:16
L53	59	time adj diversity and rake with receiver and symbol and window	USPAT	OR	ON	2007/08/02 22:16
L54	3	("6754253").URPN.	USPAT	OR	ON	2007/08/02 22:16
L55	4	time adj diversity with rake and symbol and window	USPAT	OR	ON	2007/08/02 22:16
L56	8	("5881057" | "6128330" | "6301293" | "6317411" | "6370129" | "6466610" | "6473467" | "6516022").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/02 22:16
L57	8	("5881057" | "6128330" | "6301293" | "6317411" | "6370129" | "6466610" | "6473467" | "6516022").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/02 22:16
L58	14	time adj diversity with CDMA and symbol and window	USPAT	OR	ON	2007/08/02 22:16
L59	55	multipath with spread near symbol and rake	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L60	0	("2001/0046221").URPN.	USPAT	OR	ON	2007/08/02 22:16
L61	172	multipath with spread with symbol and rake	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L62	2	"20010014116".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:21

L63	1	"20070160083".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:22
L64	0	"7158475.pn"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:22
L65	2	"7158475".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:23
L66	2	"5946345".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:23

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Apparatus and method of multi-user detection - Patent 20050141653
An apparatus comprising: a decoder having at least a **first processing window** unit to
detect a desired symbol within a first group of **multipath** components ...
www.freepatentsonline.com/20050141653.html - 45k - Cached - Similar pages - Note this

METHODS AND APPARATUSES FOR PROCESSING OF GLOBAL POSITIONING ...
... at the same relative position as it did for the **first processing window**. ..... metered
delivery) | Next Patent (**Multipath** interference-resistant re. ...
www.freepatentsonline.com/20040076223.html - 68k - Cached - Similar pages - Note this

Apparatus and method of multi-user detection invention
In addition, **multipath** components may be refered as diversity signals. ... for example,
symbol "0", a **first processing window** 260 may be positioned around ...
www.freshpatents.com/Apparatus-and-method-of-multi-user-detection-
dt20050630ptan20050141653.php - 32k - Cached - Similar pages - Note this

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Apparatus and method of multi-user detection - Patent 20050141653
... first group of **multipath** components; and allocating a **second processing window** to ...
The method of claim 1, comprising: grouping two or more **multipath** ...
www.freepatentsonline.com/20050141653.html - 45k - Cached - Similar pages - Note this

Apparatus and method of multi-user detection invention
In addition, **multipath** components may be refered as diversity signals. ... 220 (eg group
215) and a **second processing window** 270 may be positioned around ...
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Methods of synchronizing subscriber stations to communications ...
The cyclic prefix is a special portion at the beginning of an OFDM **symbol**, and is added
mainly to improve the immunity of the OFDM signal to **multipath** ...
www.freepatentsonline.com/20070160083.html - 116k - Cached - Similar pages - Note this

[PDF] Coexistence Assessment of Industrial Wireless Protocols in the ...
File Format: PDF/Adobe Acrobat - View as HTML
into one data **symbol** and the. **second group** of four bits (b ...... when multiplied by the
normalized power values, yield the effect of the **multipath**. For ...
www.nrc.gov/reading-rm/doc-collections/nuregs/contract/cr6939/cr6939.pdf -
Similar pages - Note this

Office Development
Properties which are marked as **multi path** (see table above) use a semicolon (.... The first
group of variables specifies a single path, the **second group** ...
api.openoffice.org/docs/DevelopersGuide/OfficeDev/OfficeDev.xhtml - 756k -
Cached - Similar pages - Note this

[PDF] "The GSM System". In: GSM, cdmaOne and 3G Systems
File Format: PDF/Adobe Acrobat
is used in the demodulation process to equalise the effects of **multipath** propagation.
The ...... The eight remaining slots in the **second group** are used ...
doi.wiley.com/10.1002/0470841672.ch2 - Similar pages - Note this

[PDF] PAM2006
File Format: PDF/Adobe Acrobat
second window to reduce smaller windows' sensitivity to a small number ...... We first
evaluate a simple **multi-path** memoryless policy to randomly select ...
www.pamconf.org/2006/papers/pam06-proceedings.pdf - Similar pages - Note this

[PDF] DS4000 Best Practices and Performance Tuning Guide
File Format: PDF/Adobe Acrobat
IBM offers different **multipath** drivers that you can use with your DS4000 ...... If you are
cabling a **second group**, repeat step 1 to step 3 and reverse the ...
www.redbooks.ibm.com/redbooks/pdfs/sg246363.pdf - Similar pages - Note this

[PDF] Cisco Content Services Switch Basic Configuration Guide
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This guide uses the following **symbols** and conventions to identify different types ...... ip
ecmp - Set the equal-cost **multipath** selection algorithm ...
www.cisco.com/univercd/cc/td/doc/product/webscale/css/bsccfggd/bcgd.pdf -
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[PDF] Cisco PIX Firewall Command Reference

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opens a 1-**second window** of opportunity that may allow non-authenticated users to go

through ...... are using Equal Cost **Multi-Path** (ECMP) in your network. ...
www.cisco.com/en/US/docs/security/pix/pix63/command/reference/63_cmd.pdf -
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Barcode Scanners and Readers: State of the Art
c) second capture optics for optically capturing light from the **symbol** passing in a second
direction through the **second window**; ...
asp.nerac.com/samples/barcode.htm - Similar pages - Note this

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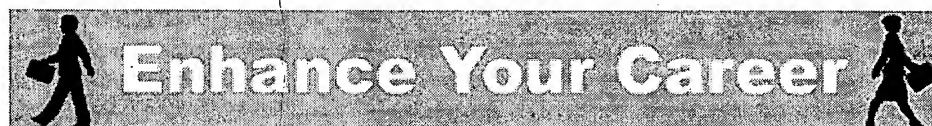*the 9 already displayed.*
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Transmitting apparatus and method and provision medium - Patent ...
... and the provision medium, the first clock and the **second window** signal are .... of an adjacent symbol will flow into the signal of the **desired symbol**. ...
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Apparatus and a method for telecommunication system - Patent 5946345
10 shows a simple sketch for a **multipath** propagation between a transmitting .... being subtracted so that only the **desired symbol** sequence y.sub.1 remains. ...
www.freepatentsonline.com/5946345.html - 73k - Cached - Similar pages - Note this

Apparatus and a method for telecommunication system - US Patent ...
10 shows a simple sketch for a **multipath** propagation between a .... and y3 in the time being subtracted so that only the **desired symbol** sequence y1 remains. ...
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[PDF] MULTIUSER DETECTION FOR MULTICARRIER COMMUNICATION SYSTEMS by ...
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driven by OFDM's resilience to inter-symbol interference in **multipath** channels. ...... time enables the receiver to capture the entire **desired symbol** energy ...
krex.k-state.edu/dspace/bitstream/2097/147/1/SamerHijazi2006.pdf -
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Transmitting apparatus and method and provision medium - Patent ...
... signal and a **second window** signal in accordance with the first window signal; ....
transmission system has tolerance against **multipath** interference, ...
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multipath AND "second window" AND symbol   [Search]

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☐ **1.** AN APPARATUS AND A METHOD FOR A TELECOMMUNICATION SYSTEM
KARLSSON, Jonas / TEDER, Paul / EWERBRING, Lars-Magnus, *PATENT COOPERATION TREATY APPLICATION,* Feb 1998
patno:WO9808312
...this way the energy in the **symbol** sequence yj is better utilized...the invention for detecting **symbols** out of DS-CDMA signals from...common radio channel 702 without **multipath** propagation. The device comprises...and generates the spread down **symbol** sequences. The receiver means...
Full text available at patent office. For more in-depth searching go to ● LexisNexis·
view all 45 results from Patent Offices
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☐ **2.** Path search method for spread spectrum communication systems and receiver using the method
Saito, Tadashi / Ohsuge, Michihiro / Tamura, Kouiti, *EUROPEAN PATENT APPLICATION,* Aug 2001
patno:EP1126627
...regarding the respective **multipath** components, the receiver...spreading cycle in one **symbol**, is normally needed...one window) of one **symbol** (t0 to t5) around a...received signals having **multipath** components at predetermined...forms at least one **second window** in the search range...
Full text available at patent office. For more in-depth searching go to ● LexisNexis·
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☐ **3.** Apparatus and a method for telecommunication system
Karlsson, Jonas / Teder, Paul / Ewerbring, Lars-Magnus, *UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT,* Aug 1999
patno:US5946345
...this way the energy in the **symbol** sequence y.sub.1 is better...the invention for detecting **symbols** out of DS-CDMA signals from...common radio channel 702 without **multipath** propagation. The device comprises...and generates the spread down **symbol** sequences. The receiver means...
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☐ **4.** Method and apparatus for detecting data sequences
Echavarri, Javier / Heaton, Robert Barnard, *EUROPEAN PATENT APPLICATION*, Feb 2003
patno:EP1282257
...8 µs, equivalent to one or two OFDM **symbols**. A section type C has a length equal to two full OFDM **symbols** and comprises two sub-sequences each...i samples, with i= 1.. N (p) -1. The **second window**, P (n -80), consists of the limiter...
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☐ **5.** WIRELESS COMMUNICATIONS METHODS AND SYSTEMS FOR LONG-CODE AND OTHER SPREAD SPECTRUM WAVEFORM PROCESSING
OATES, John H., *PATENT COOPERATION TREATY APPLICATION*, Sep 2002
patno:WO02073937
...user for the mth **symbol** period, [h.p iS...lag for the pth **multipath** component for the...lag for the pth **multipath** component for the Ah user, m is a **symbol** period, Tk is a...user for the mth **symbol** period, Tk.p) iS...lag for the pth **multipath** component for the...
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☐ **6.** Path search method of spread spectrum communication system and receiver using the method
Saito, Tadashi / Ohsuge, Michihiro / Tamura, Kouiti, *UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION*, Aug 2001
patno:US20010014116
...to time, which is shorter than one **symbol**, and in the vicinity of the center...is referred to as a search window (**second window**). The **second window** is one of two...windows have the search range where one **symbol** time is equally divided into five...
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☐ **7.** Correlator co-processor for CDMA rake receiver
Brown, Katherine G. / Sriram, Sundararajan / Honore, Francis / Lee, Yuan Kang, *EUROPEAN PATENT*, Aug 2001
patno:EP1128565
...as a diversity combiner of **multipath** propagated signals. RAKE receivers...dedicated to processing the **multipath** propagated signals in a predetermined...accumulations such as accumulating "**symbol**" energy values and returning...output buffers such as a Finger **Symbol** Buffer, DPE Buffer, LCI Buffer...
Full text available at patent office. For more in-depth searching go to LexisNexis‐
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☐ **8.** WIRELESS COMMUNICATIONS METHODS AND SYSTEMS FOR SHORT-CODE AND OTHER SPREAD SPECTRUM WAVEFORM PROCESSING
VINSKUS, Michael J., *PATENT COOPERATION TREATY APPLICATION*, Sep 2002
patno:WO02073230
...that represents correlations among **multipath** signal amplitudes associated with...detection statistics corresponding to the **symbols** as a func- tion of the correlation...commensurate with a rate of change of the **multipath** ampli- tudes associated with these...
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9. RECEIVER FOR WIRELESS TELECOMMUNICATION STATIONS AND METHOD
REZNIK, Alexander, *PATENT COOPERATION TREATY APPLICATION*, Aug 2003
patno:WO03069793
...carrier, frequency, code, **symbol**, frame and network synchronization...components
due to distinct **multipath** components. This may happen...single-path components in a
multipath channel and are unable to...probability of detection for **multipath** fading
(Case 1). [00057] Figure...
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10. DIRECT-PATH-SIGNAL DETECTION APPARATUS AND ASSOCIATED METHODS
SHREVE, Gregory A., *PATENT COOPERATION TREATY APPLICATION*, Feb 2003
patno:WO03010897
...received RF signal is received via a **multipath** propagation medium. - 2 The
threshold...transmission of a radio-frequency pulse in a **multipath** propagation medium.
The RF apparatus...transmit a radio-frequency pulse into a **multipath** propagation
medium. The receiver circuitry...
Full text available at patent office. For more in-depth searching go to *LexisNexis*
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11. A communication protocol system and method for transferring data via satellite
Bedwell, Thomas E, *UNITED KINGDOM PATENT APPLICATION*, May 2000
patno:GB2343595
...alleviate the effects of **multipath** propagation. Rate 1/2, constraint...channel operates
at 1200 **symbols**/s with a fixed length frame...transmission rate is 600 **symbol**/s for
current generation satellites and 1200 **symbol**/s for future generation...
Full text available at patent office. For more in-depth searching go to *LexisNexis*
view all 45 results from Patent Offices
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12. CDMA receiver having a controllable search range and method for controlling the same
Miura, Tetsuya, *EUROPEAN PATENT*, Nov 2000
patno:EP1052783
...through a plurality of paths, namely, a **multipath** in the CDMA system and, therefore,
multipath fading should be removed from the radio...supplied with radio signals through
the **multipath** and a searcher for searching such **multipath**...
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13. METHOD AND APPARATUS FOR TRACKING THE MAGNITUDE OF A TRANSMITTED SIGNAL
McCARTY, Robert, Joseph, Jr. / TRIVEDI, Akshaya, *PATENT COOPERATION TREATY
APPLICATION*, May 2001
patno:WO0139450
...k = 0, 1, 2.. . (number of **symbols** = n) as: n-1 average I M(k...the elimination of the
n-1 **symbol** time lag induced from the first...is accomplished by sliding a **second
window** backwards 7 through the array...then used to normalize the **symbols** to the
lower ring value. For...
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14. article.dvi [PDF-84K]
Aug 2002
Highlights of Statistical Signal and Array Processing June 29, 1998 1 Background and
Overview section written by Alfred Hero Many engineering applications require extraction

of a signal or parameter of interest from degraded measurements.
[http://www.eecs.umich.edu/~hero/Preprints/SPMarticle98...]
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☐ **15.** No Title [PDF-288K]
May 2002
...corresponding significant conditions of encoding are called "1" and "0." Synonyms marking pulse, marking signal. 2. A **symbol** or **symbols** that indicate the beginning or the end of a field, of a word, or of a data item in a file, record, or block. marker...
[http://www.its.bldrdoc.gov/projects/devglossary/other/...]
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☐ **16.** DISSZENT.PDF [56K]
Jan 2002
...102 List of **Symbols**...channel is its excessive **multipath** propagation property...therein. As a result of **multipath** propagation a spread...the system experiences **multipath**. Narrow-band radio systems...dispersion causing inter-**symbol** interference. For the...
[http://www.nt.tuwien.ac.at/mobile/theses_finished/PhD_...]
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☐ **17.** Wireless communications systems and methods for cache enabled multiple processor based multiple user detection
Oates, John H. / Imperiali, Steven R. / Fuchs, Alden J. / Jacques, Kathleen J. / Greene, Jonathan E. / Jenkins, William J. / Lauginiger, Frank P. / (...) / Vinskus, Michael J., *UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION*, Dec 2003
patno:US20030231702
...designed to detect a different **multipath** component of the user signal...to codes that exceed one **symbol** period; the latter, to codes that are a single **symbol** period or less. [0138]FIG...processing logic 118 and **symbol** rate processing logic 120...
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☐ **18.** IBM Ultrium Tape Device Drivers: Installation and Users Guide [PDF-117K]
Oct 2003
...pause . . . . 227 delay . . . . 227 system . . . .
. . . 228 **symbols** . . . . 228 exit. . . . . 228 **Symbolic**
Values . . . . 228 De
[http://www.cs.ualberta.ca/hiso/pdf/IBM_ultrium_tape_IU...]
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☐ **19.** Wireless communications systems and methods for nonvolatile storage of operating parameters for multiple processor based multiple user detection
Oates, John H. / Imperiali, Steven R. / Fuchs, Alden J. / Jacques, Kathleen J. / Greene, Jonathan E. / Cantrell, Paul E. / Lauginiger, Frank P. / (...) / Vinskus, Michael J., *UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION*, Oct 2003
patno:US20030202559
...designed to detect a different **multipath** component of the user signal...to codes that exceed one **symbol** period; the latter, to codes that are a single **symbol** period or less. [0127]FIG...processing logic 118 and **symbol** rate processing logic 120...
Full text available at patent office. For more in-depth searching go to   ● LexisNexis⁻
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☐ **20.** Wireless communications systems and methods for multiple processor based multiple user detection
Oates, John H. / Imperiali, Steven R. / Fuchs, Alden J. / Jacques, Kathleen J. /

Greene, Jonathan E. / Jenkins, William J. / Lauginiger, Frank P. / (...) / Vinskus, Michael J., *UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION*, Oct 2003
patno:US20030202566
...designed to detect a different **multipath** component of the user signal...to codes that exceed one **symbol** period; the latter, to codes that are a single **symbol** period or less. [0136]FIG...processing logic 118 and **symbol** rate processing logic 120...
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☐ **1.** AN APPARATUS AND A METHOD FOR A TELECOMMUNICATION SYSTEM
KARLSSON, Jonas / TEDER, Paul / EWERBRING, Lars-Magnus, *PATENT COOPERATION TREATY APPLICATION*, Feb 1998
patno:WO9808312
...Figure 10 shows a simple sketch for a **multipath** propagation between a transmitting antenna...time being subtracted so that only the **desired symbol** sequence yj remains. In this way the...on a common radio channel 702 without **multipath** propagation. The device comprises a...
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☐ **2.** Apparatus and a method for telecommunication system
Karlsson, Jonas / Teder, Paul / Ewerbring, Lars-Magnus, *UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT*, Aug 1999
patno:US5946345
...FIG. 10 shows a simple sketch for a **multipath** propagation between a transmitting antenna...time being subtracted so that only the **desired symbol** sequence y.sub.1 remains. In this way...on a common radio channel 702 without **multipath** propagation. The device comprises a...
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Personal, Indoor and Mobile Radio Communications, 2002. The 13th IEEE Inte Symposium on
Volume 5, 15-18 Sept. 2002 Page(s):2082 - 2086 vol.5
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☐ 2. **A maximum likelihood OFDM receiver with smoothed FFT-window for larg** **delay difference over the guard interval**
Suyama, S.; Hara, Y.; Suzuki, H.; Kamio, Y.; Fukawa, K.;
Vehicular Technology Conference, 2002. VTC Spring 2002. IEEE 55th
Volume 3, 6-9 May 2002 Page(s):1247 - 1251 vol.3
Digital Object Identifier 10.1109/VTC.2002.1002814
AbstractPlus | Full Text: PDF(571 KB)   **IEEE CNF**
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☐ 3. **Windowed DFT based pilot-symbol-aided channel estimation for OFDM s** **multipath fading channels**
Baoguo Yang; Letaief, K.B.; Cheng, R.S.; Zhigang Cao;
Vehicular Technology Conference Proceedings, 2000. VTC 2000-Spring Tokyc
Volume 2, 15-18 May 2000 Page(s):1480 - 1484 vol.2
Digital Object Identifier 10.1109/VETECS.2000.851372
AbstractPlus | Full Text: PDF(432 KB)   **IEEE CNF**
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☐ 4. **Timing phase estimator overcoming Rayleigh fading for OFDM systems**
Young-Jae Ryu; Dong-Seog Han;
Consumer Electronics, IEEE Transactions on
Volume 47, Issue 3, Aug. 2001 Page(s):370 - 377
Digital Object Identifier 10.1109/30.964123
AbstractPlus | Full Text: PDF(630 KB)   **IEEE JNL**
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☐ 5. **Three-step cell search algorithm for broadband multi-carrier CDMA packe** **access**
Hanada, Y.; Higuchi, K.; Sawashi, M.;

Personal, Indoor and Mobile Radio Communications, 2001 12th IEEE Internati·
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Volume 2, 30 Sept.-3 Oct. 2001 Page(s):G-32 - G-37 vol.2
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6. **Extended one-shot decorrelating detector for asynchronous DS/CDMA sy
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Jee Woong Kang; Kwang Bok Lee;
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7. **Normalization, windowing and quantization of soft-decision Viterbi decoc
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Lee, Y.K.; Lou, H.;
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Volume 1, 16-20 May 1999 Page(s):221 - 225 vol.1
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8. **A Channel Estimation Algorithm for OFDM Based on PCC training Symbc
Frequency Domain Windowing**
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Digital Object Identifier 10.1109/ISCIT.2006.339823

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environments with large delay spread**
Suyama, S.; Suzuki, H.; Fukawa, K.;
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10. **Accurate FFT processing window timing detection based on maximum S
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13. Combination performance of truncated decorrelator and coherent RAKE CDMA
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